

## ABSTRACT

An electrical variable optical attenuator (10) includes a housing, an attenuating device (3), an optical module (4), and an electrical controlling unit (5). The housing encases the attenuating device, optical module and electrical controlling unit. The electrical controlling unit includes an electrical resistor (57), a terminal holder (56), and a stepping motor (55). The terminal holder includes a plurality of terminals (562), and a plurality of terminal sleeves (563) depending from an insulating plate (561). The terminal holders are fittingly received in positioning holes (131) defined in the housing, so that the terminals can electrically connect the stepping motor and the electrical resistor with an external power supply. The insulating plate is made of rubber, which is softer than a material of the housing. A diameter of the terminal sleeves is slightly greater than a diameter of the positioning holes. Thus the terminal sleeves provide an airtight and watertight seal.